

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. Morse	NDS 189,111 (2023)	23-Sep-2022

$S(p)=1025$ *syst*; $Q(\alpha)=9469$ *syst* [2021Wa16](#)

$\Delta S(p)=283$, $\Delta Q(\alpha)=288$ ([2021Wa16](#)).

$S(2p)=3929$ SY 259, $Q(\epsilon p)=2142$ SY 220 ([2021Wa16](#)).

[2022Hu21](#): First observation of the nucleus ^{251}Lr . The experiment was performed using AGFA at Argonne National Laboratory using the $^{203}\text{Tl}(^{50}\text{Ti},2n)$ reaction at a beam energy of 237 MeV. ^{251}Lr was identified based on spatial and temporal correlations between evaporation residues detected at the focal plane of AGFA and subsequent α -decays linking ^{251}Lr with known decays of the daughter nuclei.

 ^{251}Lr Levels

E(level)	J^π	$T_{1/2}$	Comments
0	(7/2 ⁻)	24.4 ms +70-45	$\% \alpha \approx 100$ configuration= $\pi 7/2^-$ [514] (2022Hu21) $\% \alpha$: Only α decay has been observed.
117 27	(1/2 ⁻)	42 ms +42-14	$\% \alpha \approx 100$ configuration= $\pi 1/2^-$ [521] (2022Hu21) $\% \alpha$: Only α decay has been observed.